

# 4-BAND STEREO RADIO CASSETTE RECORDER

MODEL NO. **TPR-955H,E,K,G**

## **AIWA®** [SERVICE MANUAL]

Code No. 03-955-000-53



Shown above is TPR-955H

DATE OF ISSUE 5/1980

### SPECIFICATIONS

#### GENERAL

**Semiconductors:** H, G model  
11 ICs, 54 transistors, 1 FET, 34 diodes, 5 LED's  
E, K model  
11 ICs, 56 transistors, 1 FET, 34 diodes, 5 LED's  
**Power source:** Batteries DC 9 V (UM-1 x 6)  
H, E model: AC 110 ~ 120V/220 ~ 240V  
K, G model: AC 120V/240V (switchable) 50-60 Hz  
**Power consumption:** H model 19W  
E model 17W  
K model 20W  
G model 23W  
**Speakers:** Woofer 160 mmφ x 2  
Tweeter 52 mmφ x 2  
**Dimensions (W x H x D):** 490 x 370 x 130 (mm)  
**Weight:** 7.2 kg

#### RADIO SECTION

**Frequency range:** H, G model  
FM 87.0 ~ 109.0 MHz  
SW, 6.8 ~ 22.5 MHz  
SW, 2.1 ~ 7.3 MHz  
MW 515 ~ 1,650 kHz  
E, K model  
FM 87.4 ~ 108.3 MHz  
SW 5.7 ~ 18.5 MHz  
MW 515 ~ 1,650 kHz  
LW 145 ~ 320 kHz  
**Intermediate frequency:** FM 10.7 MHz  
SW, SW<sub>1</sub>, SW<sub>2</sub>, MW, LW  
H, G model: 455 kHz  
E, K model: 468 kHz  
**Sensitivity:** FM (S/N 6 dB)  
4 ± 3 dB (at 85, 90, 108 MHz)  
SW (S/N 10 dB)  
26 ± 5 dB (at 5.9 MHz)  
17 ± 5 dB (at 12 MHz)  
15 ± 5 dB (at 18 MHz)  
SW<sub>1</sub> (S/N 10 dB)  
28 ± 5 dB (at 7 MHz)  
17 ± 5 dB (at 14, 22 MHz)  
SW<sub>2</sub> (S/N 10 dB)  
40 ± 4 dB (at 2.3, 7.0 MHz)  
38 ± 4 dB (at 4.0 MHz)  
MW (S/N 10 dB)

**FM stereo separation:**  
**Antennas:**

H, G model  
44 ± 4 dB (at 600, 1,000, 1,400 kHz)  
E, K model  
43 ± 4 dB (at 600 kHz)  
42 ± 4 dB (at 1,000, 1,400 kHz)  
LW (S/N 10 dB)  
52 ± 5 dB (at 150 kHz)  
50 ± 5 dB (at 220, 300 kHz)  
25 ± 5 dB (at 1 kHz)  
H, G model  
Built-in whip antenna for FM, SW,  
Built-in ferrite bar antenna for  
SW, MW  
External antenna terminals for FM  
E, K model  
Built-in whip antenna for FM, SW  
Built-in ferrite bar antenna for  
MW, LW  
External antenna terminals for FM

#### TAPE RECORDER SECTION

**Recording system:** AC bias  
**Erasing system:** AC erase  
**Recording bias frequency:** 54.5 ± 1 kHz  
**Distortion:** Less than 1.7% (PB)  
Less than 3.0% (REC/PB)  
**Frequency response:** H, G model  
Normal tape 40 ~ 12,500 Hz  
CrO<sub>2</sub> tape 40 ~ 14,000 Hz  
E, K model  
Normal tape 50 ~ 12,000 Hz  
CrO<sub>2</sub> tape 50 ~ 14,000 Hz  
Fe-Cr tape 50 ~ 14,000 Hz  
More than 50/47 dB  
**Signal to noise ratio:** (Un-Weighted)  
More than 43/42 dB (PB)  
(DC/AC) (PB)  
**Erasing ratio:** More than 55 dB (at 400 Hz)  
**Separation:** More than 35 dB (at 400 Hz, PB)  
**Maximum output power:** 10W (SW + SW)  
**Head:** Ferrite guard head (F.G.H.)  
**Pinch roller pressure:** 350 ± 25 g (3.43 ± 0.25 N)  
**Wow and Flutter:** 0.07% (WRMS)  
**Take-up torque:** 50 ± 10 g-cm (0.49 ± 0.1 mN-m)  
**FF & rewind torque:** 100 ± 20 g-cm (0.98 ± 0.1 mN-m)

• The specifications and external appearance of this set are subject to change without prior notice.

## DISASSEMBLY INSTRUCTIONS

**1. To Remove Back Cover**

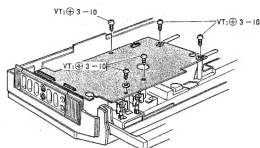
- 1) Remove the 2 screws.  
(See figure 1)



&lt;Fig. 1&gt;

**2. To Remove REC/PB Circuit Board**

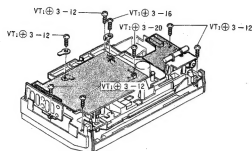
- 1) Remove the 5 screws.  
(See figure 2)



&lt;Fig. 2&gt;

**3. To Remove Main Case**

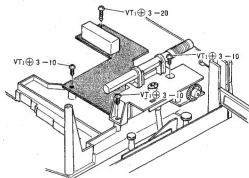
- 1) Remove the 8 screws.  
(See figure 3)



&lt;Fig. 3&gt;

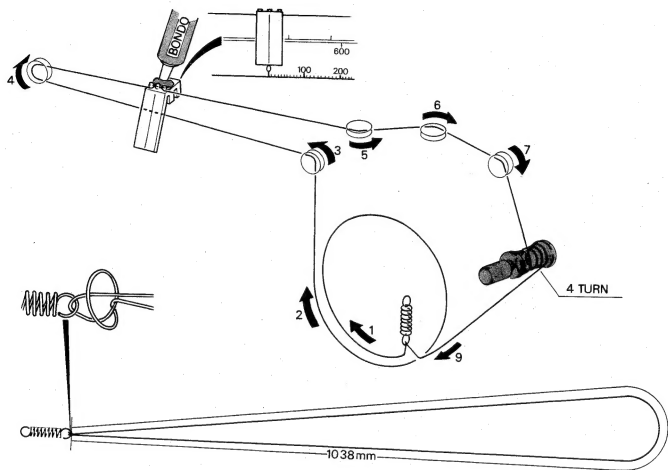
**4. To Remove Tuner Circuit Board**

- 1) Remove the 4 screws.  
(See figure 4)

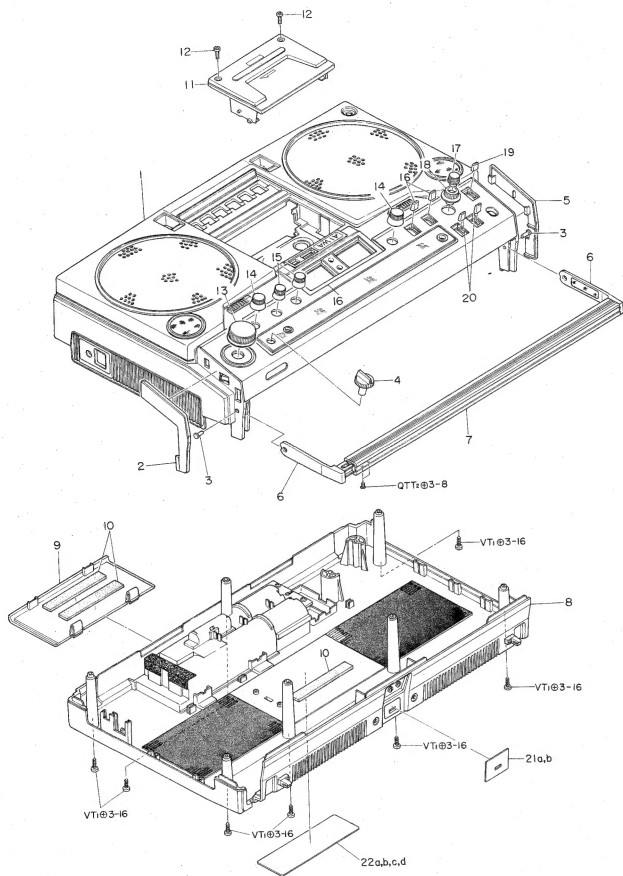


&lt;Fig. 4&gt;

## DIAL CORD STRINGING



## EXPLODED VIEW-1



## PARTS LIST

## MECHANICAL PARTS

■ \* mark in this part list shows exclusive part  
(which is used) for only Model TPR-955.

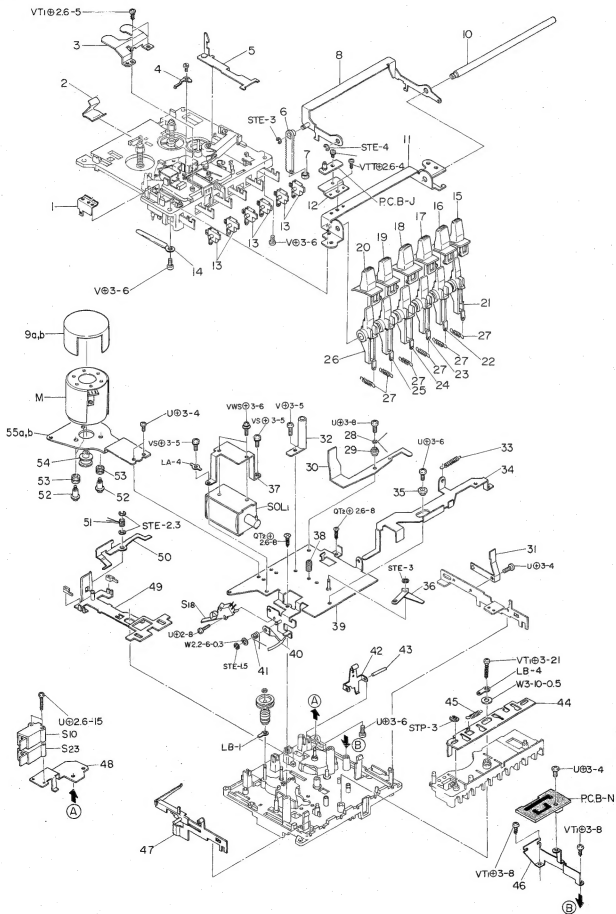
Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1-1a	09-017-789-01		Main cabinet ass'y (H,G model only)	*	1
1-1b	09-017-788-01		Main cabinet ass'y (E,K model only)	*	1
1-2	82-541-019-01		Panel,R, Side	TPR-950	1
1-3	82-541-267-01		Shaft, Carrying handle	TPR-950	2
1-4	82-541-025-01		Knob, band	TPR-950	1
1-5	82-541-020-01		Panel L, Side	TPR-950	1
1-6	82-534-013-01		Handle arm R		2
1-7	82-541-013-01		Handle grip	TPR-950	1
1-8	09-017-790-01		Back cover ass'y	*	1
1-9	82-541-003-01		Battery room lid	TPR-950	1
1-10	82-416-260-01		M cushion	TPR-601	3
1-11	09-017-791-01		Cassette lid ass'y	*	1
1-12	87-081-895-01		Allen screw 3-14		2
1-13	82-538-041-01		Knob, Tuning		1
1-14	82-560-013-01		Knob A, Volume	*	2
1-15	82-560-014-01		Knob B, Volume	*	2
1-16	82-560-017-01		Knob A, Lever switch	*	2
1-17	82-560-016-01		Knob D, Volume	*	1
1-18	82-560-015-01		Knob C, Volume	*	1
1-19	82-560-019-01		Knob, Sleep	*	1
1-20	82-560-018-01		Knob, B, Lever switch	*	2
1-21a	82-541-094-01		Plate, Antenna (H, G model only)	TPR-950	1
1-21b	82-541-075-01		Plate, Antenna (E, K model only)	TPR-950	1
1-22a	82-573-009-01		Name plate, Spec. (H model only)	*	1
1-22b	82-573-010-01		Name plate, Spec. (E model only)	*	1
1-22c	82-573-011-01		Name plate, Spec. (K model only)	*	1
1-22d	82-573-013-01		Name plate, Spec. (G model only)	*	1

This exploded view diagram illustrates the assembly of the JVC HA-S2000 stereo system. The main unit is shown at the top, with various components labeled for identification. Key parts include the PCB-O, PCB-E, PCB-C, PCB-M, PCB-A, PCB-B, PCB-D, PCB-H, and PCB-P. The diagram also shows the tuner (J13), amplifier (J6), and various capacitors (C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36, C37, C38, C39, C40, C41, C42, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C75, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C136, C137, C138, C139, C140, C141, C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C170, C171, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187, C188, C189, C190, C191, C192, C193, C194, C195, C196, C197, C198, C199, C200, C201, C202, C203, C204, C205, C206, C207, C208, C209, C210, C211, C212, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C226, C227, C228, C229, C230, C231, C232, C233, C234, C235, C236, C237, C238, C239, C240, C241, C242, C243, C244, C245, C246, C247, C248, C249, C250, C251, C252, C253, C254, C255, C256, C257, C258, C259, C260, C261, C262, C263, C264, C265, C266, C267, C268, C269, C270, C271, C272, C273, C274, C275, C276, C277, C278, C279, C280, C281, C282, C283, C284, C285, C286, C287, C288, C289, C290, C291, C292, C293, C294, C295, C296, C297, C298, C299, C300, C301, C302, C303, C304, C305, C306, C307, C308, C309, C310, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C341, C342, C343, C344, C345, C346, C347, C348, C349, C350, C351, C352, C353, C354, C355, C356, C357, C358, C359, C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381, C382, C383, C384, C385, C386, C387, C388, C389, C390, C391, C392, C393, C394, C395, C396, C397, C398, C399, C400, C401, C402, C403, C404, C405, C406, C407, C408, C409, C410, C411, C412, C413, C414, C415, C416, C417, C418, C419, C420, C421, C422, C423, C424, C425, C426, C427, C428, C429, C430, C431, C432, C433, C434, C435, C436, C437, C438, C439, C440, C441, C442, C443, C444, C445, C446, C447, C448, C449, C450, C451, C452, C453, C454, C455, C456, C457, C458, C459, C460, C461, C462, C463, C464, C465, C466, C467, C468, C469, C470, C471, C472, C473, C474, C475, C476, C477, C478, C479, C480, C481, C482, C483, C484, C485, C486, C487, C488, C489, C490, C491, C492, C493, C494, C495, C496, C497, C498, C499, C500, C501, C502, C503, C504, C505, C506, C507, C508, C509, C510, C511, C512, C513, C514, C515, C516, C517, C518, C519, C520, C521, C522, C523, C524, C525, C526, C527, C528, C529, C530, C531, C532, C533, C534, C535, C536, C537, C538, C539, C540, C541, C542, C543, C544, C545, C546, C547, C548, C549, C550, C551, C552, C553, C554, C555, C556, C557, C558, C559, C560, C561, C562, C563, C564, C565, C566, C567, C568, C569, C570, C571, C572, C573, C574, C575, C576, C577, C578, C579, C580, C581, C582, C583, C584, C585, C586, C587, C588, C589, C590, C591, C592, C593, C594, C595, C596, C597, C598, C599, C600, C601, C602, C603, C604, C605, C606, C607, C608, C609, C610, C611, C612, C613, C614, C615, C616, C617, C618, C619, C620, C621, C622, C623, C624, C625, C626, C627, C628, C629, C630, C631, C632, C633, C634, C635, C636, C637, C638, C639, C640, C641, C642, C643, C644, C645, C646, C647, C648, C649, C650, C651, C652, C653, C654, C655, C656, C657, C658, C659, C660, C661, C662, C663, C664, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700, C701, C702, C703, C704, C705, C706, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C720, C721, C722, C723, C724, C725, C726, C727, C728, C729, C730, C731, C732, C733, C734, C735, C736, C737, C738, C739, C740, C741, C742, C743, C744, C745, C746, C747, C748, C749, C750, C751, C752, C753, C754, C755, C756, C757, C758, C759, C760, C761, C762, C763, C764, C765, C766, C767, C768, C769, C770, C771, C772, C773, C774, C775, C776, C777, C778, C779, C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794, C795, C796, C797, C798, C799, C800, C801, C802, C803, C804, C805, C806, C807, C808, C809, C810, C811, C812, C813, C814

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
2-1	82-541-205-01		Gear C, Band selector	TPR-950	1
2-2	82-541-301-01		Chassis, Tuning	TPR-950	1
2-3	82-541-204-01		Gear B, Band selector	TPR-950	1
2-4	82-541-203-01		Gear A, Band selector	TPR-950	1
2-5	82-541-058-01		Himeron cloth, Antenna switch	TPR-950	1
2-6	87-087-027-01		Rubber cushion		2
2-7	82-439-311-01		Joint, Drum	TPR-300	1
2-8	87-096-045-01		String, Dial		1
2-9	82-534-290-01		E-spring, Tuning brum		1
2-10	82-541-014-01		Pointer, Tuning	TPR-950	1
2-11	82-439-310-01		Drum	TPR-300	1
2-12	82-541-232-01		Shaft, Tuning	TPR-950	1
2-13	81-302-107-01		Roller		1
2-14	81-385-014-01		Roller		4
2-15	82-541-201-01		Chassis, Radio	TPR-950	1
2-16	87-064-084-01		Holder, ECM		2
2-17	87-038-039-01		Wire binder		2
2-18	82-541-280-01		Metal fitting, Push-button shaft	TPR-950	1
2-19	82-541-298-01		Metal fitting E, Volume	TPR-950	1
2-20	82-545-016-01		Push-button, REC mute	TPR-980	1
2-21	82-560-224-01		P-spring, Cassette up	*	1
2-22	82-534-264-01		Gear, oil damp		1
2-23	82-534-250-01		Oil damp metal fitting ass'y		1
2-24	87-040-113-01		Counter		1
2-25	87-064-059-01		Holder, ECM		1
2-26	82-541-275-01		Plate spring, Earth plate	TPR-950	1
2-27	87-043-050-01		Rod antenna		2
2-28	82-560-209-01		Holder ass'y, ATS knob	*	1
2-29	82-560-007-01		Push-key, ATS	*	1
2-30	82-541-026-01		Push-key, Stand-by	TPR-950	1
2-31	82-541-231-01		Shaft, Stand-by		1
2-32	82-541-235-01		Metal fitting, Tweeter		4
2-33	82-560-207-01		Slide lever, ATS switch	*	1
2-34	82-560-208-01		Lever, ATS plate	*	1
2-35	82-560-225-01		T-spring, Change lever	*	1
2-36	82-541-012-01		Reflect plate	TPR-950	1
2-37a	82-573-007-01		Dial plate (H, G model only)	*	1
2-37b	82-573-008-01		Dial plate (E, K model only)	*	1
2-38	82-541-299-01		Metal fitting, 49mm band	TPR-950	1
2-39	82-541-251-01		Lever B, Lever switch	TPR-950	2
2-40	82-541-246-01		Shaft, Lever switch	TPR-950	2
2-41	82-541-233-01		Slide lever ass'y, Sleep	TPR-950	1
2-42	82-530-223-01		Lock plate		1
2-43	82-541-250-01		T-spring, Sleep switch	TPR-950	1
2-44	82-541-243-01		E-spring, Sleep lever	TPR-950	1
2-45	82-534-254-01		Lock pin, Power switch lever		1
2-46	82-541-043-01		Knob, Light switch	TPR-950	1
2-47	82-541-244-01		Lever A, Lever switch	TPR-950	2
2-48	82-541-308-01		Holder, Peak circuit board	TPR-950	1
2-49	82-541-245-01		E-spring, Sleep metal fitting	TPR-950	1
2-50	82-541-236-01		Metal fitting ass'y, Sleep	TPR-950	1
2-51	82-463-088-01		Terminal plate (E, K model only)	TPR-900	1
2-52	82-541-241-01		Joint, Lever switch	TPR-950	4
2-53	82-416-260-01		M cushion	TPR-601	2
2-54	82-541-638-01		Shield paper A	TPR-950	1
2-55	82-541-061-01		Knob, 49mm band	TPR-950	2
2-56	82-560-218-01		Metal fitting	*	1
2-57	82-541-268-01		Rubber belt, Counter	TPR-950	1

## EXPLODED VIEW-3

As this is a PM-1 mechanism, the exploded view is omitted (see the supplement PM-1 mechanism adjustment manual). The exploded view below shows the additional mechanism of the PM-1. Also shown are the attachments of the motor and a list of such.







Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty	
3-1	82-541-284-01		Plate spring, Wire holder	TPR-950	1	
3-2	82-563-292-01		P-spring, Cassette hold		1	
3-3	82-541-628-01		Shield plate, Head	TPR-950	1	
3-4	82-539-206-01		Earth plate, EH		1	
3-5	82-541-221-01		Cassette lock lever	TPR-950	1	
3-6	82-541-240-01		Oil damp lever	TPR-950	1	
3-7	82-461-319-01		Cushion, Cassette lid	TPR-930	1	
3-8	82-541-212-01		Cassette box lever ass'y	TPR-950	1	
3-9a	82-541-612-01		Motor shield cap (H, G model only)	TPR-950	1	
3-9b	82-551-629-01		Motor shield cap (E, K model only)	TPR-935	1	
3-10	82-541-216-01		Shaft, Push-button	TPR-950	1	
3-11	82-541-218-01		Metal fitting, Push-button	TPR-950	1	
3-12	82-541-273-01		Metal fitting, LED	TPR-950	1	
3-13	82-541-229-01		Knob, Change	TPR-950	6	
3-14	87-038-039-01		Wire binder		1	
3-15	82-541-031-01		Push-switch, PAUSE	TPR-950	1	
3-16	82-541-030-01		Push-key, STOP	TPR-950	1	
3-17	82-541-028-01		Push-key, FF	TPR-950	1	
3-18	82-541-027-01		Push-key, FWD	TPR-950	1	
3-19	82-541-032-01		Push-key, REW	TPR-950	1	
3-20	82-541-029-01		Push-key, REC	TPR-950	1	
3-21	82-541-257-01		Push-lever, PAUSE	TPR-950	1	
3-22	82-541-255-01		Push-lever, STOP	TPR-950	1	
3-23	82-541-254-01		Push-lever, FF	TPR-950	1	
3-24	82-541-252-01		Push-lever, FWD	TPR-950	1	
3-25	82-541-253-01		Push-lever, REW	TPR-950	1	
3-26	82-541-256-01		Push-lever, REC	TPR-950	1	
3-27	82-541-288-01		E-spring, Push-key	TPR-950	6	
3-28	82-534-271-01		T-spring, REC lever		1	
3-29	82-534-212-01		Collar, REC lever		1	
3-30	82-541-224-01		REC lever	TPR-950	1	
3-31	82-560-217-01		P-spring, REC	*	1	
3-32	82-541-274-01		Circuit board supporter	TPR-950	1	
3-33	82-560-230-01		E-spring, Eject lever	*	1	
3-34	82-560-238-01		Eject lever ass'y	*	1	
3-35	82-560-219-01		Collar, Eject lever	*	1	
3-36	82-560-206-01		Change lever, Solenoid	*	1	
3-37	82-560-204-01		Holder, Solenoid	*	1	
3-38	82-385-311-01		Thrust screw	AD-6300	1	
3-39	82-560-201-01		Flywheel bearing plate ass'y	*	1	
3-40	82-560-212-01		Lock plate, Stand-by	*	1	
3-41	82-560-231-01		T-spring, Pause lock plate	*	1	
3-42	82-541-297-01		P-spring, CrO <sub>2</sub> switch	TPR-950	1	
3-43	82-439-398-01		Shaft, CrO <sub>2</sub> selector	TPR-300	1	
3-44	82-560-220-01		ATS plate	*	1	
3-45	82-283-289-01		Spring, Play idler lever		1	
3-46	82-541-296-01		Metal fitting, CrO <sub>2</sub> switch	TPR-950	1	
3-47	82-560-213-01		Pause lever ass'y	*	1	
3-48	82-560-223-01		Metal fitting, Power switch	*	1	
3-49	82-560-236-01		Brake plate ass'y	*	1	
3-50	82-439-271-01		Lever, CrO <sub>2</sub> selector	TPR-300	1	
3-51	82-534-266-01		T-spring, CrO <sub>2</sub> selector lever		1	
3-52	87-081-483-01		Motor screw, M2.6		3	
3-53	87-087-029-01		Rubber cushion		3	
3-54	87-071-025-01		Motor pulley		1	
3-55a	82-560-216-01		Holder, Motor (H, G model only)	*	1	
3-55b	82-541-316-01		Holder, Motor (E, K model only)	TPR-950	1	

## ELECTRICAL MAIN PARTS LIST = H, G MODEL

Symbol No.	Part No.	Description
<b>◀TUNER CIRCUIT BOARD SECTION▶</b>		
PCB-A	82-541-702-11	Tuner circuit board
IC1	87-027-285-01	IC, HA-11251
IC2	87-027-296-01	IC, HA-11227
Q1	87-026-109-01	FET, 2SK49 (E2)
Q2	89-319-232-01	Transistor, 2SC1923 (R)
Q3	89-305-352-01	Transistor, 2SC535 (B)
Q4,5	89-316-752-01	Transistor, 2SC1675 (L)
Q6	89-110-153-01	Transistor, 2SA1015 (O)
Q7	89-309-455-01	Transistor, 2SC945L (Q)
D1	87-017-004-01	Diode, SD117
D2,5	88-051-060-01	Diode, 1N60
D3	87-027-097-01	Diode, 1S1555
D4	87-027-286-01	Zener diode, HZ5C1
L1	82-539-657-01	FM antenna coil
L2	82-546-601-01	FM RF coil
L3	87-007-088-01	FM OSC coil, 2 1/2 $\mu$ H
L4	87-005-101-01	FM choke coil, 2.2 $\mu$ H
L5	87-005-136-01	Coil, 20 $\mu$ H
L6	87-008-182-01	FM quad coil
L7	82-541-675-01	SW <sub>2</sub> antenna coil
L8,9	82-541-674-01	SW <sub>1</sub> , MW bar antenna coil
L10,11	87-007-058-01	SW <sub>1</sub> , SW <sub>2</sub> OSC coil
L12	87-007-057-01	MW OSC coil
VC1,2,3,4	87-011-105-01	Poly-variable capacitor
TC2,3,4,8		
TC1,5,6,7,9	87-011-099-01	Trimmer
CF1,2	87-008-153-01	Ceramic filter
CFT1	87-008-162-01	AM ceramic filter transformer
IFT1	87-008-174-01	FM IFT
IFT2	87-008-164-01	AM IFT
LPF1,2	87-028-038-01	Low-pass filter
SFR1	87-021-357-01	Semi-fixed resistor, 10K $\Omega$ -B
SFR2	87-021-527-01	Semi-fixed resistor, 500 $\Omega$ -B
S1	87-031-441-01	Rotary switch (BAND SELECTOR)
<b>&lt;Capacitors&gt;</b>		
C36	87-014-045-01	330pF PP
C81	87-014-049-01	470pF PP
C34	87-014-061-01	1500pF PP
C28	87-014-065-01	2200pF PP
C89	87-015-311-01	0.1 $\mu$ F 10V Aluminum solid
C83	87-015-320-01	0.33 $\mu$ F 10V Aluminum solid
<b>◀REC/PB CIRCUIT BOARD SECTION▶</b>		
PCB-B	82-541-615-71	REC/PB circuit board
IC1,2	87-027-227-01	IC, TA-7215P
Q1,2,11,12,19,20	89-307-326-01	Transistor, 2SC732 (BL)
Q3,4,7,8,13,14	89-307-325-01	Transistor, 2SC732 (G)
Q5,8	89-310-006-01	Transistor, 2SC1000 (BL)
Q9,10,21,22,23,24,29,30	89-318-154-01	Transistor, 2SC1815 (Y)
Q15,16,25,26	89-104-954-01	Transistor, 2SA495 (Y)
Q27,28	89-318-155-01	Transistor, 2SC1815 (GR)
Q31,32	89-200-562-01	Transistor, 2SB56 (B)
Q39	89-404-005-01	Transistor, 2SD400 (E)
D1,2,5,6,7,8	88-051-060-01	Diode, 1N60
D3,4	87-027-097-01	Diode, 1S1555
D9	87-027-228-01	Zener diode, 05Z-7.5U
L1,2	87-003-044-01	Trap coil
L3	82-401-661-01	Choke coil, 600 $\mu$ H
L4	87-003-039-01	Choke coil, 36 $\mu$ H
L5	82-418-612-01	Bias OSC coil
S2	82-533-608-01	Slide switch (REC/PB)
S3,4	82-541-604-11	Lever switch (ALC, TAPE)
S5	82-541-606-11	Lever switch (FUNCTION)

Symbol No.	Part No.	Description
S6	82-541-605-11	Lever switch (MODE)
SFR1,2	82-542-623-01	Semi-fixed resistor, 100K $\Omega$ -B
SFR3,4	82-542-624-01	Semi-fixed resistor, 10K $\Omega$ -B
SFR5	87-021-596-01	Semi-fixed resistor, 20K $\Omega$ -B
SFR6	82-542-612-01	Semi-fixed resistor, 200K $\Omega$ -B
	82-541-687-01	Heat sink plate
<b>&lt;Capacitors&gt;</b>		
C87,88	87-015-311-01	0.1 $\mu$ F 10V Aluminum solid
C103,104	87-014-065-01	2200pF PP
<b>◀VOLUME CIRCUIT BOARD SECTION▶</b>		
PCB-C	82-541-700-01	Volume circuit board
Q1,2	89-307-325-01	Transistor, 2SC732 (G)
VR1,2,3,4	82-541-623-01	Volume, 50K $\Omega$ -A (BASS, TREBLE)
VR5,6	82-541-646-01	Volume, 20K $\Omega$ -B (VOLUME)
<b>&lt;Capacitor&gt;</b>		
C307,308,317,318	87-015-314-01	0.47 $\mu$ F 10V Aluminum solid
<b>◀JACK CIRCUIT BOARD SECTION▶</b>		
PCB-D	82-541-619-11	Jack circuit board
J1~12	82-541-601-11	Jack plate ass'y
S15	82-541-627-01	Slide switch (OSC)
<b>◀REC MUTE CIRCUIT BOARD SECTION▶</b>		
PCB-E	82-541-636-11	REC MUTE circuit board
Q1,2	89-318-154-01	Transistor, 2SC1815 (Y)
S8	82-541-626-01	Slide switch (REC MUTE)
<b>◀PEAK CIRCUIT BOARD SECTION▶</b>		
PCB-F	82-541-630-11	Peak circuit board
Q35~38	89-318-154-01	Transistor, 2SC1815 (Y)
SFR1	87-021-434-01	Semi-fixed resistor, 20K $\Omega$ -B
<b>◀SWITCH CIRCUIT BOARD SECTION▶</b>		
PCB-G	82-541-701-01	Switch circuit board
D1,2	87-027-097-01	Diode, 1S1555
S7	82-541-603-01	Slide switch (TUNE/BATT)
<b>◀POWER CIRCUIT BOARD SECTION▶</b>		
△ PCB-H	87-033-153-01	Power circuit board
D1~4	87-027-445-01	Diode, 10E-2
△ F1	87-035-144-01	Fuse, "T" 250mA
	87-098-010-01	Fuse label, "T" 250mA
△ F2	87-035-118-01	Fuse, "T" 2.5A
	87-098-020-01	Fuse label, "T" 2.5A
	87-032-323-01	Fuse clamp
<b>◀PEAK LED CIRCUIT BOARD SECTION▶</b>		
PCB-I	82-541-632-11	Peak LED circuit board
D1	87-027-262-01	LED, TLR-124 (+7dB)
D2	87-027-263-01	LED, TLY-124 (+3dB)
<b>◀REC LED CIRCUIT BOARD SECTION▶</b>		
PCB-J	82-541-631-01	REC LED circuit board
D1	82-300-622-01	LED, SLP-132B (REC)
<b>◀REC VR CIRCUIT BOARD SECTION▶</b>		
PCB-K	82-541-618-11	REC VR circuit board
VR1,2	82-541-625-01	Volume, 20K $\Omega$ -A (REC/VOLUME)
<b>◀BALANCE VR CIRCUIT BOARD SECTION▶</b>		
PCB-L	82-541-671-11	Balance VR circuit board
VR7,8	82-541-624-01	Volume, 100K $\Omega$ -A (BALANCE)

Symbol No.	Part No.	Description
<b>«LOUDNESS CIRCUIT BOARD SECTION»</b>		
PCB-M	82-541-653-01	Loudness circuit board
S16	82-541-644-01	Push-switch (LOUDNESS)
<b>&lt;Capacitor&gt;</b>		
C3,4	87-015-367-01	0.15 $\mu$ F 10V Aluminum solid
<b>«CHROME CIRCUIT BOARD SECTION»</b>		
PCB-N	82-541-654-01	Chrome circuit board
S17	87-031-381-01	Slide switch (CrO <sub>2</sub> BIAS)
<b>«MS CIRCUIT BOARD SECTION»</b>		
PCB-O	82-560-606-31	MS circuit board
IC1,2	87-027-538-01	IC, $\mu$ PD-4069
IC3	87-027-439-01	IC, CMOS 4020
IC4,5	87-027-298-01	IC, CMOS 4001 NOR
IC6	87-027-441-01	IC, TC4029
IC7	87-027-422-01	IC, TC5022
Q1,2,3,4,5,7	89-318-154-01	Transistor, 2SC1815 (Y)
Q6	89-110-154-01	Transistor, 2SA1015 (Y)
Q8	89-311-623-01	Transistor, 2SC1162 (C)
Q9	89-318-156-01	Transistor, 2SC1815 (BL)
D1,2,3,4,5,10 11,13,14	87-027-097-01	Diode, 1S1555
D6,7,8,9	88-052-188-11	Diode, 1S188 (FM)
RY1	82-555-622-01	Relay
S21	82-560-608-01	Slide switch (MS/SLEEP)
SFR1	87-021-570-01	Semi-fixed resistor, 100K $\Omega$ -B
SFR2	87-021-588-01	Semi-fixed resistor, 200K $\Omega$ -B
<b>&lt;Capacitor&gt;</b>		
C5	87-015-518-01	1.5 $\mu$ F 25V Tantalum
<b>«DIGITAL IND CIRCUIT BOARD SECTION»</b>		
PCB-P	82-560-607-21	Digital IND circuit board
D1	87-027-506-01	LED (DIGITAL IND)
D2	87-027-687-01	LED, SR505D (FM STEREO, OPERATE)

Symbol No.	Part No.	Description
<b>«MISCELLANEOUS»</b>		
 T1	82-555-619-01	Power transformer (H model) only
 T1	82-555-620-01	Power transformer (G model) only
RPH	87-046-163-01	REC/PB head
EH	87-046-127-01	Erase head
SOL1	82-560-610-21	Solenoid
M	87-045-117-21	Motor
LM1	87-040-111-01	Level meter L
LM2	87-040-112-01	Level meter R
ECM1,2	85-868-019-01	ECM, CMU-9 (B)
SP1,2	82-541-685-01	Speaker (Woofer)
SP3,4	82-560-631-01	Speaker (Tweeter)
J13	87-032-881-01	Jack, 6.3 $\phi$ (PHONES)
J14	82-266-214-11	DC Jack (DC 9V)
 J15	87-032-853-01	AC Jack
S9	82-541-679-01	Push-switch (AFC)
S10,23	87-031-493-01	Micro switch (PLAY, MOTOR, SOLENOID)
S11	87-031-393-01	Leaf switch (AUTO STOP)
S14	82-541-607-01	Slide switch (ANT SELECTOR)
S18,19	87-031-418-01	Micro switch (PAUSE, TIMER STAND BY)
 S20	87-031-393-01	Slide switch (VOLTAGE SELECTOR)
S22	82-560-609-01	Push-switch (PROGRAM)
D1	87-033-139-11	External antenna terminal
	87-027-365-01	Diode, S5277B
<b>&lt;Capacitor&gt;</b>		
C1,2	82-981-610-01	3.3 $\mu$ F 50V Electrolytic BP

** Safety component symbol**

This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

## ELECTRICAL MAIN PARTS LIST = E, K Model

Symbol No.	Part No.	Description
<b>◀TUNER CIRCUIT BOARD SECTION▶</b>		
PCB-A	82-541-702-11	Tuner circuit board
IC1	87-027-285-01	IC, HA-11251
IC2	87-027-296-01	IC, HA-11227
Q1	87-026-109-01	FET, 2SK49 (E2)
Q2	89-319-232-01	Transistor, 2SC1923 (R)
Q3	89-305-352-01	Transistor, 2SC535 (B)
Q4,5	89-316-752-01	Transistor, 2SC1675 (L)
Q6	89-110-153-01	Transistor, 2SA1015 (O)
Q7	89-309-455-01	Transistor, 2SC945L (Q)
D1	87-017-004-01	Diode, SD117
D2,5	88-051-060-01	Diode, IN60
D3	87-027-097-01	Diode, IS1555
D4	87-027-286-01	Zener diode, HZ5C1
L1	82-539-657-01	FM antenna coil
L2	82-546-601-01	FM RF coil
L3	87-007-088-01	FM OSC coil, 2 $\mu$ H
L4	87-005-101-01	FM choke coil, 2.2 $\mu$ H
L5	87-005-136-01	Coil, 20 $\mu$ H
L6	87-008-182-01	FM quad coil
L7	82-539-651-01	SW antenna coil
L8,9	82-541-642-01	LW, MW bar antennar coil
L10	82-573-602-01	SW OSC coil
L11	87-007-057-01	MW OSC coil
L12	82-479-664-11	LW OSC coil
VC1,2,3,4	87-011-105-01	Poly-variable capacitor
TC2,3,7,8	87-011-099-01	Trimmer
TC1,4,5	87-011-021-01	Trimmer, IAT-54
TC6	85-708-604-01	Trimmer, 30P
CF1,2	87-008-169-01	Ceramic filter
CF1,1	87-008-150-01	AM ceramic filter transformer
IFT1	87-008-174-01	FM IFT
IFT2	87-008-164-01	AM IFT
LPF1,2	87-028-038-01	Low-pass filter
SFR1	87-021-357-01	Semi-fixed resistor, 10K $\Omega$ -B
SFR2	87-021-527-01	Semi-fixed resistor, 500 $\Omega$ -B
S1	82-541-688-01	Rotary switch (BAND SELECTOR)
<b>&lt;Capacitors&gt;</b>		
C36	87-014-035-01	120pF PP
C34	87-014-045-01	330pF PP
C81	87-014-049-01	470pF PP
C33	87-014-071-01	3900pF PP
C89	87-015-311-01	0.1 $\mu$ F 10V Aluminum solid
C83	87-015-320-01	0.33 $\mu$ F 10V Aluminum solid
<b>◀REC/PB CIRCUIT BOARD SECTION▶</b>		
PCB-B	82-541-652-41	REC/PB circuit board
IC1,2	87-027-227-01	IC, TA-7215P
Q1,2,11,12	89-307-326-01	Transistor, 2SC732 (BL)
19,20		
Q3,4,7,8,13,14	89-307-325-01	Transistor, 2SC732 (G)
Q5,6	89-310-006-01	Transistor, 2SC1000 (BL)
Q9,10,21,22	89-318-154-01	Transistor, 2SC1815 (Y)
23,24,29,30		
Q15,16,25,26	89-104-954-01	Transistor, 2SA495 (Y)
Q27,28	89-318-155-01	Transistor, 2SC1815 (GR)
Q31,32	89-200-562-01	Transistor, 2SB56 (B)
Q39	89-404-005-01	Transistor, 2SD400 (E)
D1,2,5,6,7,8	88-051-060-01	Diode, IN60
D3,4	87-027-097-01	Diode, IS1555
D9	87-027-228-01	Zener diode, 05Z-7.5U
L1,2	87-003-044-01	Trap coil
L3	82-401-661-01	Choke coil, 600 $\mu$ H
L4	87-003-039-01	Choke coil, 36 $\mu$ H
L5	82-418-612-01	Bias OSC coil

Symbol No.	Part No.	Description
S2	82-533-608-01	Slide switch (REC/PB)
S3,4	82-541-604-11	Lever switch (ALC, TAPE)
S5	82-541-606-11	Lever switch (FUNCTION)
S6	82-541-605-11	Lever switch (MODE)
SFR1,2	82-542-623-01	Semi-fixed resistor, 100K $\Omega$ -B
SFR3,4	82-542-624-01	Semi-fixed resistor, 10K $\Omega$ -B
SFR5	87-021-596-01	Semi-fixed resistor, 20K $\Omega$ -B
SFR6	82-542-612-01	Semi-fixed resistor, 200K $\Omega$ -B
	82-541-687-01	Heat sink plate
<b>&lt;Capacitors&gt;</b>		
C109	87-015-141-01	10 $\mu$ F 16V Electrolytic BP
C87,88,115	87-015-311-01	0.1 $\mu$ F 10V Aluminum solid
116		
C103,104	87-014-065-01	2200pF PP
<b>◀VOLUME CIRCUIT BOARD SECTION▶</b>		
PCB-C	82-541-700-01	Volume circuit board
Q1,2	89-307-325-01	Transistor, 2SC732 (G)
VR1,2,3,4	82-541-623-01	Volume, 50K $\Omega$ -A (BASS, TREBLE)
VR5,6	82-541-646-01	Volume, 20K $\Omega$ -B (VOLUME)
<b>&lt;Capacitor&gt;</b>		
C307,308	87-015-314-01	0.47 $\mu$ F 10V Aluminum solid
317,318		
<b>◀JACK CIRCUIT BOARD SECTION▶</b>		
PCB-D	82-541-658-01	Jack circuit board
J1~5	82-541-639-11	Jack plate ass'y
S15	82-541-647-01	Slide switch (OSC)
<b>◀REC MUTE CIRCUIT BOARD SECTION▶</b>		
PCB-E	82-541-636-11	REC MUTE circuit board
Q1,2	89-318-154-01	Transistor, 2SC1815 (Y)
S8	82-541-626-01	Slide switch (REC MUTE)
<b>◀PEAK CIRCUIT BOARD SECTION▶</b>		
PCB-F	82-541-669-11	Peak circuit board
Q35~38	89-318-154-01	Transistor, 2SC1815 (Y)
SFR1	87-021-434-01	Semi-fixed resistor, 20K $\Omega$ -B
<b>◀SWITCH CIRCUIT BOARD SECTION▶</b>		
PCB-G	82-541-701-01	Switch circuit board
D1,2	87-027-097-01	Diode, IS1555
S7	82-541-603-01	Slide switch (TUNE/BATT)
<b>◀POWER CIRCUIT BOARD SECTION▶</b>		
△PCB-H	87-033-137-01	Power circuit board
D1~4	87-027-445-01	Diode, 10E-2
△F1	87-035-145-01	Fuse, "T" 250mA
	87-098-010-01	Fuse label, "T" 250mA
△F2	87-035-139-01	Fuse, "T" 2.5A
	87-098-020-01	Fuse label, "T" 2.5A
	87-032-323-01	Fuse clamp
<b>◀PEAK LED CIRCUIT BOARD SECTION▶</b>		
PCB-I	82-541-667-11	Peak LED circuit board
D1	87-027-262-01	LED, TLR-124 (+7dB)
D2	87-027-263-01	LED, TLY-124 (+3dB)
<b>◀REC LED CIRCUIT BOARD SECTION▶</b>		
PCB-J	82-541-631-11	REC LED circuit board
D1	82-300-622-01	LED, SLP-132B (REC)
<b>◀REC VR CIRCUIT BOARD SECTION▶</b>		
PCB-K	82-541-668-11	REC VR circuit board
VR1,2	82-541-625-01	Volume, 20K $\Omega$ -A (REC VOLUME)




Symbol No.	Part No.	Description
<b>«BALANCE VR CIRCUIT BOARD SECTION»</b>		
PCB-L	82-541-666-11	Balance VR circuit board
VR7,8	82-541-624-01	Volume, 100KΩ-A, C (BALANCE)

<b>«LOUDNESS CIRCUIT BOARD SECTION»</b>		
PCB-M	82-541-653-01	Loudness circuit board
S16	82-541-644-01	Push-switch (LOUDNESS)
<b>&lt;Capacitor&gt;</b>		
C3,4	87-015-367-01	0.1μF 10V Aluminum solid

<b>«CHROME CIRCUIT BOARD SECTION»</b>		
PCB-N	82-541-654-01	Chrome circuit board
Q501,502	89-318-155-01	Transistor, 2SC1815 (GR)
S17	87-031-381-01	Slide switch (CrO <sub>2</sub> BIAS)

<b>«MS CIRCUIT BOARD SECTION»</b>		
PCB-O	82-560-606-31	MS circuit board
IC1,2	87-027-538-01	IC, μPD-4069
IC3	87-027-439-01	IC, CMOS 4020
IC4,5	87-027-298-01	IC, CMOS 4001 NOR
IC6	87-027-441-01	IC, TC4029
IC7	87-027-422-01	IC, TC5022
Q1,2,3,4,5,7	89-318-154-01	Transistor, 2SC1815 (Y)
Q6	89-110-154-01	Transistor, 2SA1015 (Y)
Q8	89-311-823-01	Transistor, 2SC1162 (C)
Q9	89-318-156-01	Transistor, 2SC1815 (BL)
D1,2,3,4,5,10 11,13,14	87-027-097-01	Diode, 1S1555
D6,7,8,9	88-052-188-11	Diode, 1S188 (FM)
RY1	82-555-622-01	Relay
S21	82-560-608-01	Slide switch (MS/SLEEP)
SFR1	87-021-570-01	Semi-fixed resistor, 100KΩ-B
SFR2	87-021-588-01	Semi-fixed resistor, 200KΩ-B
<b>&lt;Capacitor&gt;</b>		
C5	87-015-518-01	1.5μF 25V Tantalum

<b>«DIGITAL IND CIRCUIT BOARD SECTION»</b>		
PCB-P	82-560-607-21	Digital IND circuit board
D1	87-027-506-01	LED (DIGITAL IND)
D2	87-027-687-01	LED, SR50SD (FM STEREO, OPERATE)

<b>«MISCELLANEOUS»</b>		
 T1	82-555-620-01	Power transformer
RPH	87-046-163-01	REC/PB head
EH	87-046-127-01	Erase head
SOL1	82-560-610-21	Solenoid
M	87-045-117-21	Motor
LM1	87-040-111-01	Level meter L
LM2	87-040-112-01	Level meter R
ECM1,2	85-868-019-01	ECM, CMU-9 (B)
SP1,2	82-541-685-01	Speaker (Woofer)
SP3,4	82-560-631-01	Speaker (Tweeter)
J6	87-032-881-01	Jack, 6.3φ (PHONES)
J7	82-266-214-11	DC jack (DC 9V)
 J8	87-032-434-01	AC jack
J9	82-488-656-01	Antenna terminal (DIN FM)
S9	82-541-679-01	Push-switch (AFC)
S10,23	87-031-493-01	Micro switch (PLAY, MOTOR, SOLENOID)
S11	87-031-393-01	Leaf switch (AUTO STOP)
S14	82-541-607-01	Slide switch (ANT SELECTOR)
S18,19	87-031-418-01	Micro switch (PAUSE, TIMER STAND BY)
 S20	87-031-364-01	Slide switch (VOLTAGE SELECTOR)
S22	82-560-609-01	Push-switch (PROGRAM)
	87-036-013-01	RH core

Symbol No.	Part No.	Description
D1	87-027-365-01	Diode, S5277B
<b>&lt;Capacitors&gt;</b>		
C1,2	82-981-610-01	3.3μF 50V Electrolytic BP
C3	87-015-424-01	0.68μF 25V Aluminum solid

### Safety component symbol

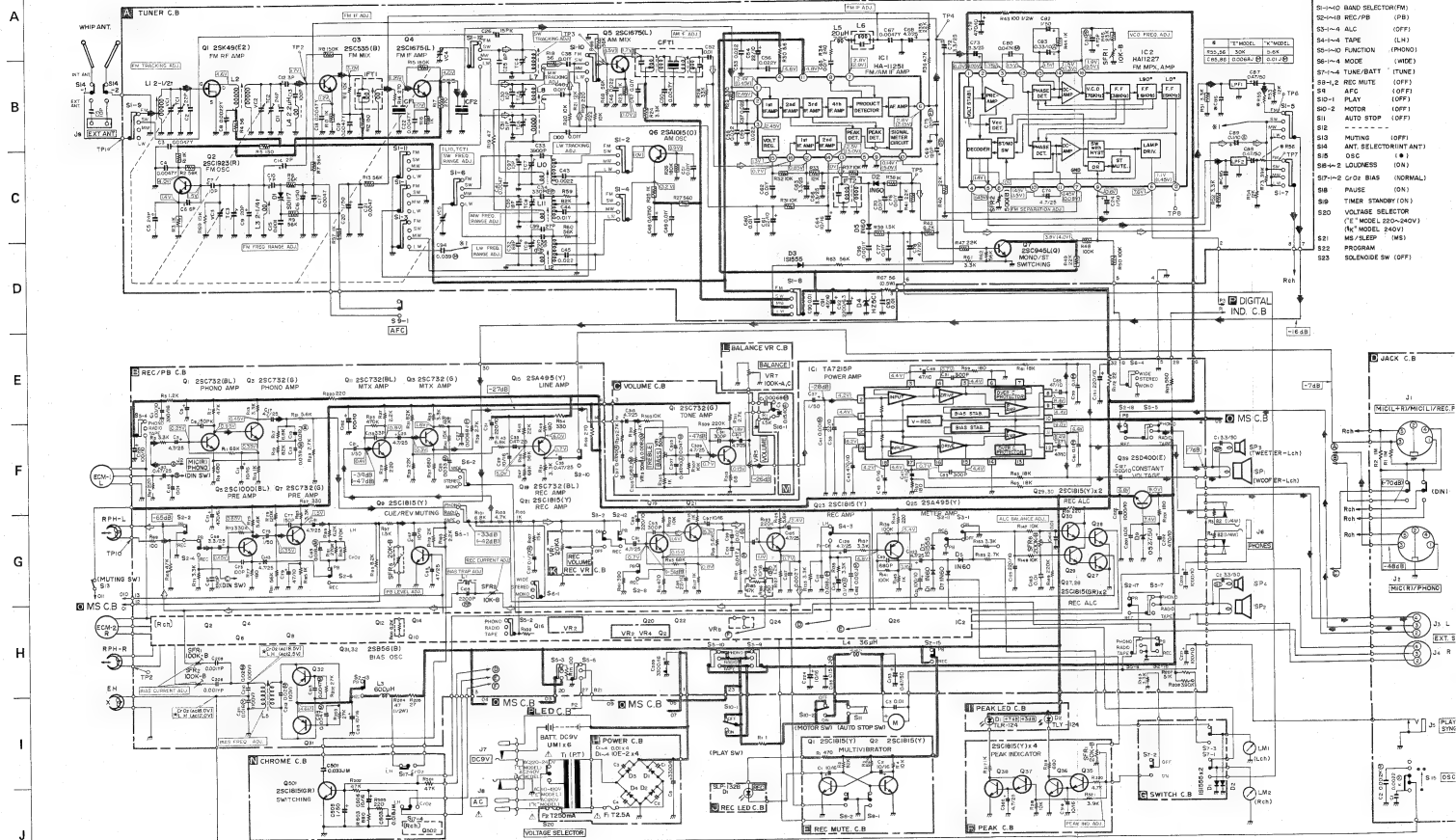
This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

The following is the part number of the ~~XXXX~~ marked parts of the PM-1 mechanism.

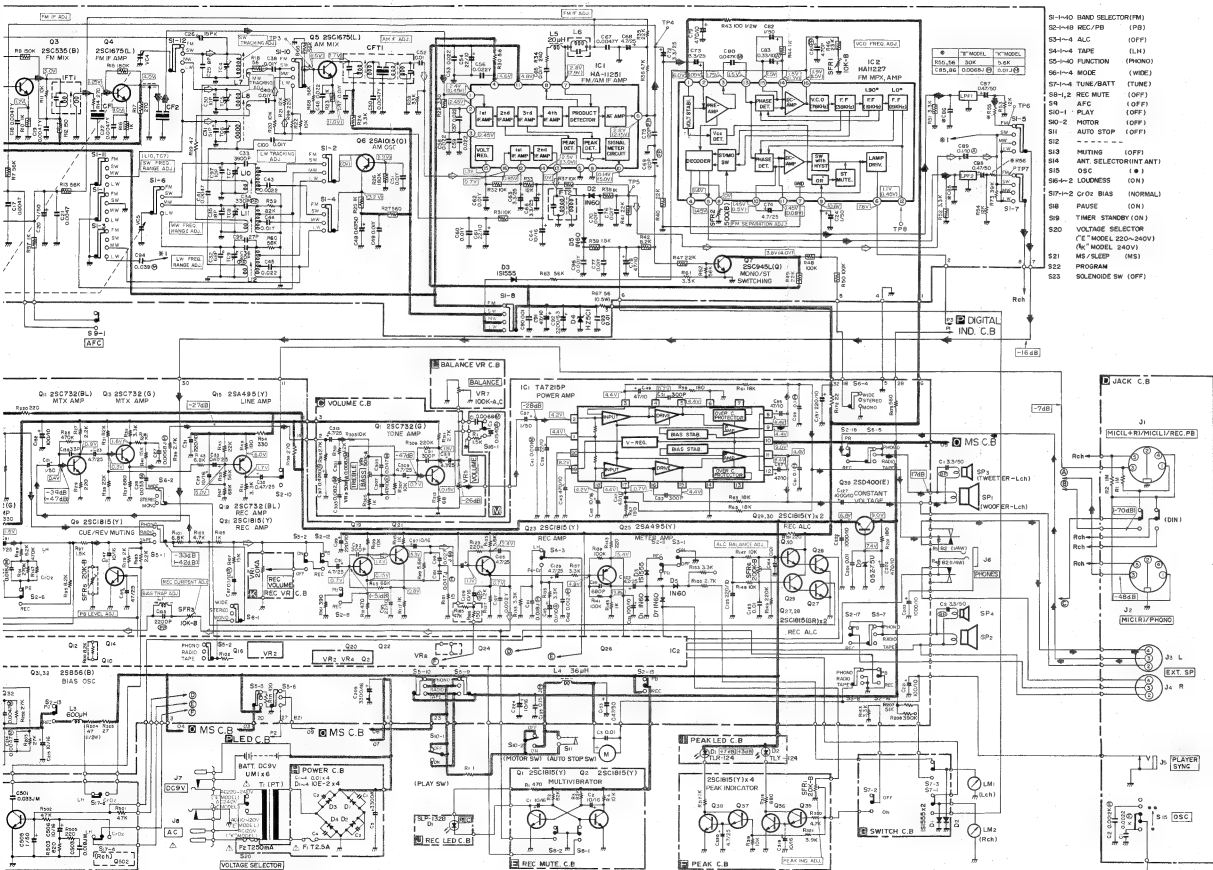
Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1-13	82-385-332-11	Spring B, Head adjusting	2-50	82-439-489-01	Flywheel ass'y
1-14	87-046-163-01	Rec./pb head	2-51	82-439-314-21	Rubber belt
1-31	87-046-127-01	Erase head	2-60	82-385-309-21	Worm gear ass'y
2-33	82-560-227-01	REC lever			
2-49	82-562-227-01	Main belt			

## ACCESSORIES/PACKAGE

Ref. No.	Part No.	Part No. Changed to	Description	Common Model	Q'ty
1	82-573-851-01		Printed indiv., Packing		1
2	82-541-852-01		Cushion L, Printed indiv.	TPR-950	1
3	82-541-853-01		Cushion R, Printed indiv.	TPR-950	1
4	87-051-137-11		Poly-vinyl sack (for AC power cord) (H, E, K model only)		1
5	87-056-607-01		Poly-vinyl sack (for case)		1
6a	82-573-901-21		Instructions booklet (H model only)	*	1
6b	82-573-903-01		Instructions booklet (E model only)	*	1
6c	82-573-904-01		Instructions booklet (K model only)	*	1
6d	82-573-906-01		Instructions booklet (G model only)	*	1
7	87-051-171-11		Poly-vinyl sack (for instruction)		1
8	82-573-902-01		Label, POP	*	1
9	87-056-008-11		Label, AC power cord (K model only)		1
10	87-056-009-41		Distributors list		1
11	87-056-016-01		Tag, Main voltage (K model only)		1
12	87-056-032-01		Guarantee card (G model only)		1
13	87-056-046-01		Label, Main supply (K model only)		1
14	87-056-535-01		Air-cap sack (G model only)		1
15	82-916-640-01		Tape cassette, DMC-154		1
16	87-032-845-01		Siemens plug (H model only)		1
17a	87-034-880-01		AC power cord (H model only)		1
17b	87-034-883-01		AC power cord (E model only)		1
17c	87-034-871-01		AC power cord (K model only)		1
17d	87-034-879-01		AC power cord (G model only)		1
18	87-047-061-01		Battery, SUM-1AE		6



4 5 6 7 8 9 10 11 12 13 14 15 16

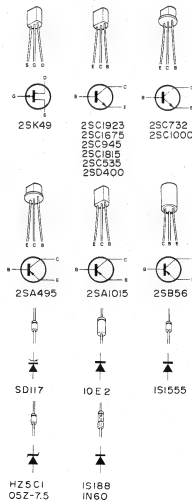


## NOTES:

- 1) — B (+) power supply
- 2) → Signal path
- 3) Rec path, AM signal path.
- 3) The voltage is the reference value measured with a tester (20 k-ohm/V DC) when there are no signals. But ( ) is with AM reception or recording.
- 4) An asterisk (\*) indicates that the value was measured with a vacuum-tube voltmeter during recording.
- 4) Resistors with no designation have a rated power of 1/4W and a tolerance of ±5%.
- 5) Capacitors with no designation have a dielectric strength of less than 50V.
- 6) The only capacitor tolerances indicated are ±5% (J) and ±10% (K).
- 7) Ceramic capacitor symbols:
  - 1— For temperature compensation (SL)
  - 1— High dielectric constant system (YY)
  - 1— High dielectric constant system (YW, YP, YZ)
  - 1— Semiconductor ceramic
  - 1— For temperature compensation (SH)
- 8) Explanation of symbols
  - ⊗ Mylar capacitor
  - ⊗ Aluminum solid capacitor
  - ⊗ Polypropylene film capacitor
  - ⊗ Bi-polarized capacitor
  - ⊗ Tantalum capacitor
  - Printed resistor
  - Fus resistor
- 9) This schematic diagram is subject to change without notice in the interests of improved performance.

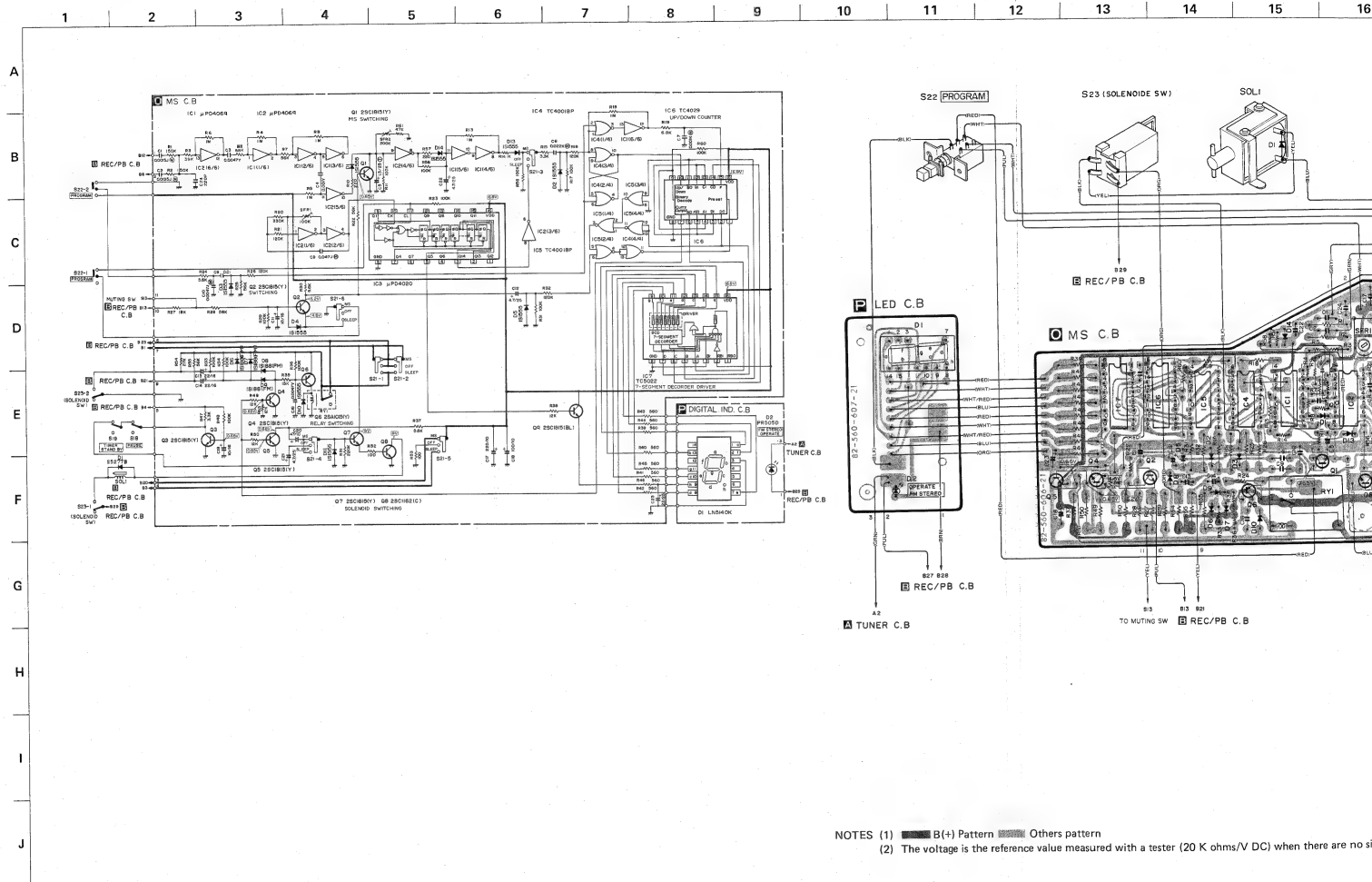
Safety component symbol

This symbol is given to important parts which serve to maintain the safety of the product, and which are made to conform to special safety specifications. Therefore, when replacing a component with this symbol, make absolutely sure that you use a designated part.

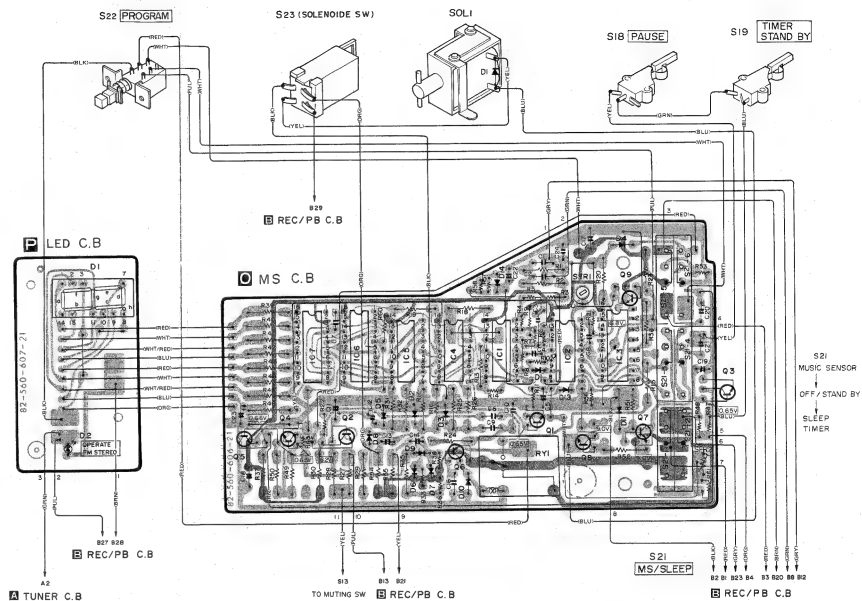


# SCHEMATIC DIAGRAM-1

## WIRING-1

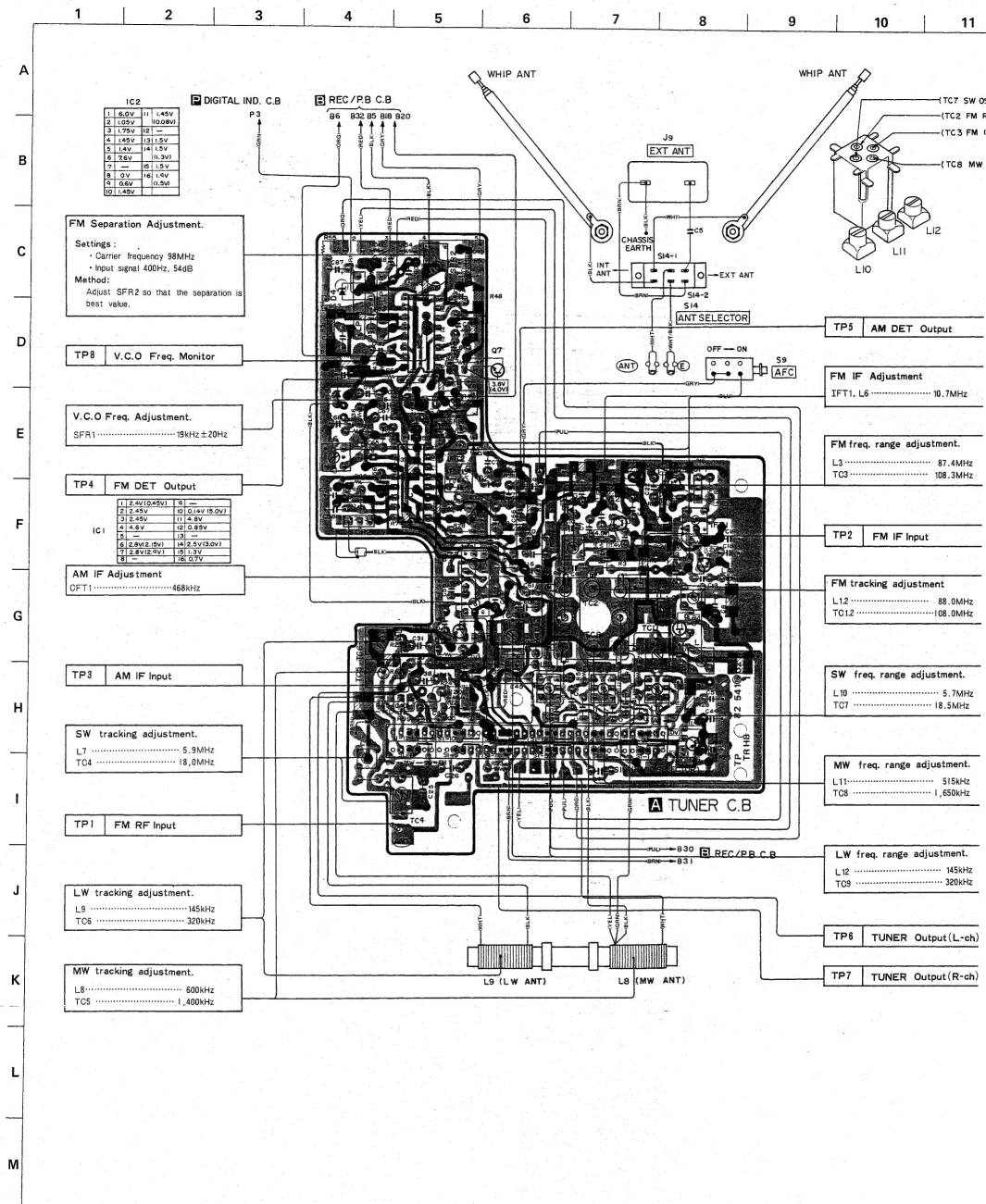


NOTES (1) B(+) Pattern Others pattern  
(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no sig



(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals.

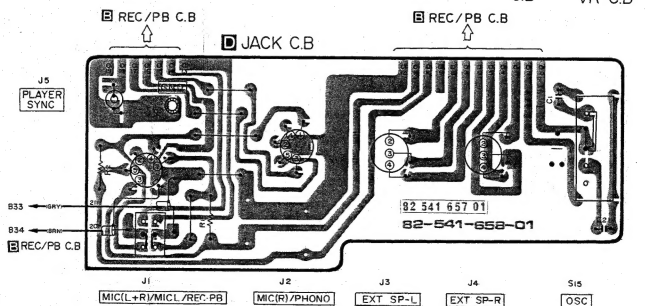
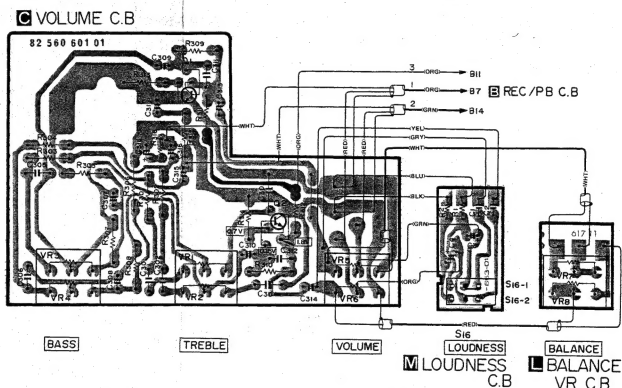
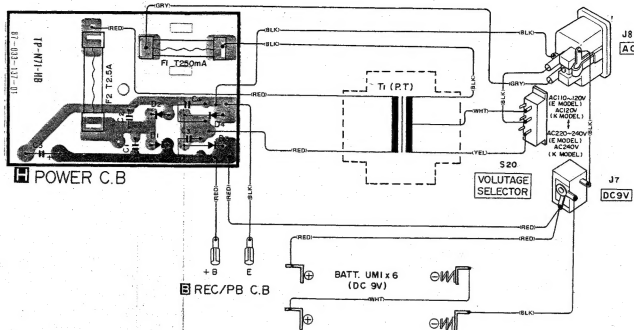
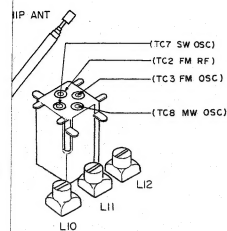
## WIRING-2



NOTES (1) ■ B(+) Pattern ■ Component side pattern ■ Others pattern

(2) The voltage is the reference value measured with a tester (20 K ohms/V DC) when there are no signals. But ( ) is with AM reception.

10 11 12 13 14 15 16 17 18 19



## WIRING-3

